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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,471	07/18/2003		Ki Beom Kim	HSI-0001	1151	
34610	7590	07/27/2005		EXAM	EXAMINER	
FLESHNE	R & KIM	, LLP		BUEKER, R	ICHARD R	
P.O. BOX 22	21200	•		· · · · · · · · · · · · · · · · · · ·		
CHANTILLY, VA 20153				ART UNIT	PAPER NUMBER	
	-	•		. 1763		

DATE MAILED: 07/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summan	10/621,471	KIM	
Office Action Summary	Examiner	Art Unit	
	Richard Bueker	1763	
The MAILING DATE of this communication apperiod for Reply	opears on the cover sh	eet with the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a report of the period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ply within the statutory minimul d will apply and will expire SIX te, cause the application to be	may a reply be timely filed  m of thirty (30) days will be considered time (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).	oly. communication.
Status		• •	
1)⊠ Responsive to communication(s) filed on 13.	July 2005.		
	is action is non-final.	•	
3)☐ Since this application is in condition for allows closed in accordance with the practice under	•	•	e merits is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-23</u> is/are pending in the application 4a) Of the above claim(s) <u>9-23</u> is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-8</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	vn from consideration		
Application Papers		·	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) object e drawing(s) be held in a ction is required if the dr	awing(s) is objected to. See 37 C	` ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been receive nts have been receive ority documents have au (PCT Rule 17.2(a))	d. d in Application No been received in this National	Stage
AMostro carrel			
Attachment(s)  1) ⊠ Notice of References Cited (PTO-892)  2) □ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 3/22/05.	Pap	rview Summary (PTO-413) er No(s)/Mail Date ice of Informal Patent Application (PToer:	O-152)

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Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1 and 5, the phrase "said moving means being operated in response to the signal of a sensing means" is a method type limitation that refers to a sensing means indirectly. Subsequent claims describe further aspects of the sensing means, but none of the claims specifically recite that the claimed apparatus comprises a sensing means. The claims should be clarified by positively reciting a sensing means in the independent claims.

It is suggested that in claims 1 and 8, line 5 of each, applicants should change the phrase "consisted of" to "comprising".

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5, 6 rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sadabetto (JP 2000-248358) who discloses (see Figs. 1-6 and the attached English translation) a deposition source for

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organic EL deposition comprising a vessel having a top plate on which a vapor efflux aperture is formed, a side wall and a bottom wall. It is noted that at page 3, para, 12 of the translation, part 5 of Fig. 2 is described as being a plate. It is noted also that the assembly comprising part 5 and the heaters 3 can properly be considered to be a plate. Sadabetto teaches that both the heater assembly plate and the bottom plate are designed and adapted to be moved up and down in a vertical direction in response to control signals from a control section. The control section in turn receives signals from a sensor 5 that senses the location of the top of the deposition material 1. Therefore, Sadabetto inherently includes all of the apparatus limitations presently recited in these claims. Regarding claim 2, it is noted that in the phrase "a number of cylinders supported by said chamber for moving said top plate", "a number of cylinders" could include the number one. Sadabetto illustrates the use of one cylinder (element 9 of Fig. 2) to move the top plate. Also, it would have been merely additive and prima facie obvious to use more than one cylinder 9. Also, since the cylinder 9 of Sadabetto is supported by the vessel, and the vessel is supported by the chamber, then the cylinder is also supported by the container.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sadabetto (JP 2000-248358) taken in view of Smith (EP 887434) who teaches (col. 3, lines 38-52, for example) the use of a spectrophotometer sensor, which includes an optical sensor. Smith also teaches that an optical monitor can be use, but is less desirable. It is noted that a nonpreferred embodiment can properly be uses as a teaching of what was known in the prior art. It would have been obvious to use either of

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these monitors as the monitor of Sadabetto, because Smith teaches that they can be used to monitor the height of an evaporation source.

Claims 4 and 7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Klug is cited of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Bueker whose telephone number is (571) 272-1431. The examiner can normally be reached on 9 AM - 5:30 PM, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parvis Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rulus Bulu Richard Bueker Primary Examiner

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